# Microprocessor Controlled Ultra-Fast Ni-MH & Ni-Cd Battery Charger

This charger is designed to charge Nickel-Metal-Hydride or Nickel-Cadmium AA, AAA size rechargeable batteries. Please note that this charger must not be used for Alkaline, Carbon Zinc, Lithium or any kind of battery other than Nickel Metal Hydride or Nickel Cadmium.

## *Features :*

- Recharges 2 pieces or 4 pieces of AA & AAA Ni-MH/Ni-Cd batteries at a time.
- Powered by the supplied AC Adaptor when using at home/Office or by the supplied DC Car Adaptor when using in a vehicle.
- Mircroprocessor Controlled – Batteries life well protected by –dV detection and timer protection.
- Unique design-with an adjustable battery contact plate that makes a good & solid contact with AA & AAA batteries.
- Automatic charging current selection for size AA and AAA.
- LED display for rapid charge/trickle charge/bad cell detection
  Red LED – rapid charge ; Green LED – trickle charge ; Flashing Red LED – Cells are not suitable for charging i.e. Short circuit or wrong polarity.

**Safety features** :

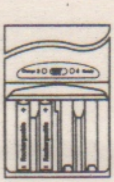
- -dV cut-off function
- Safety timer to prevent over charge
- Reverse-polarity protection

## *OPERATION INSTRUCTIONS : -*

1. Slide the switch to select the number of battery to be charged. For charging 2 cells, set the switch to position "2". For charging 4 cells, set the switch to position "4".

2. Insert 2 or 4 pieces of AA/AAA rechargeable Ni-Cd/Ni-MH batteries into the battery compartment; battery must be charged in pairs. For charging only 2 cells, insert the batteries to the left side of the charging terminal (Fig. 1)

(Fig. 1)



3. Make correct contact for polarity ( + and - ) ; according to the sign in the battery compartment.

4. For charging of AAA battery, pull down the adjustable battery contact plate first and then insert the AAA batteries into the compartment. Now the AAA batteries will be hold firmly inside the compartment. The charger will adjust the suitable charging current for AAA battery automatically.

5. ***When using at home/Office***

   Connect the supplied AC adaptor's barrel plug into the jack on the back of the charger. Plug the AC adaptor into a correct household electric outlet.

   **Caution** : The supplied AC adaptor supplies 12VDC and delivers 500mA, and its plug fits into the charger's **DC input jack**. Using an adaptor that does not meet these specifications could damage the charger or the adaptor.

   ***When using in a vehicle***

   Connect the supplied DC car adaptor's barrel plug into the charger's **DC input jack**. Plug the large end of the cord into the 12V car lighter power port.

6. The Red LED will glow to indicate the proper charging. After the batteries are fully charged, the red LED will turn off and the green LED will light up indicating the trickle charge is on. The charged batteries are ready for use.

7. Unplug the charger and remove the batteries from the charger when not in use.

*Charging time* :

| Size | Charging current | Nickel Metal Hydride | |
|---|---|---|---|
| AA | 700mA | 1300mAh | 120 minutes |
| AA | 700mA | 1600mAh | 140 minutes |
| AA | 700mA | 1800mAh | 160 minutes |
| AA | 700mA | 2000mAh | 180 minutes |
| AA | 700mA | 2100mAh | 190 minutes |
| AA | 700mA | 2300mAh | 200 minutes |
| AAA | 350mA | 500mAh | 90 minutes |
| AAA | 350mA | 650mAh | 120 minutes |
| AAA | 350mA | 800mAh | 150 minutes |

| Size | Charging current | Nickel Cadmium | |
|---|---|---|---|
| AA | 700mA | 600mAh | 60 minutes |
| AA | 700mA | 800mAh | 75 minutes |
| AAA | 350mA | 220mAh | 50 minutes |

*Charge time will vary depending upon the brand, capacity and condition of batteries being charged.

## Important Safety Instructions

1. Before charging, read instruction.
2. This charger is intended for use with Nickel-Cadmium and Nickel-metal-hydride rechargeable batteries only. Attempting to charge other types of batteries may cause personal injury and damage to the charger.
3. Recharge only one type of battery (Ni-Cd or Ni-MH) at each time.
4. Do not expose charger to rain or moisture. For indoor use only.
5. Remove from mains when not in use.
6. Never use an extension cord or any attachment not recommended by manufacturer, otherwise this may result in a risk of fire, electric shock or injury to persons.
7. Do not operate the charger if it has been subjected to shock or damage. Take it to a qualified serviceman for repair.
8. Do not disassemble the charger. Incorrect reassemble may result in a risk of electric shock or fire.
9. Unplug the charger from outlet before attempting any maintenance of cleaning.